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DB=USPT; PLUR=YES; OP=ADJ

<input type="checkbox"/>	L6	6797010	1
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<input type="checkbox"/>	L5	L2 and thermostabl\$5	20
<input type="checkbox"/>	L4	L2 and humicola	98
<input type="checkbox"/>	L2	L1 and (sequence or gene)	160
<input type="checkbox"/>	L1	cutinase with (variant or muta\$4 or substitut\$3)	167

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Search Results - Record(s) 1 through 10 of 20 returned.

1. Document ID: US 20040226672 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 20

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040226672

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040226672 A1

TITLE: Enzymatic hydrolysis of a polymer comprising vinyl acetate monomer

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borch, Kim	Birkerod	TN	DK	
Lund, Henrik	Skodsborg		DK	
Sharyo, Masaki	Matsudo-shi		JP	
Sakaguchi, Hiromichi	Chiba city		JP	
Pedersen, Hanne Host	Lyngby		DK	
Fitzhenry, James William	Memphis		US	

US-CL-CURRENT: 162/72; 162/147, 435/277, 435/278

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Draw](#)

2. Document ID: US 20040180340 A1

L5: Entry 2 of 20

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040180340

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040180340 A1

TITLE: Method for creating polynucleotide and polypeptide sequences

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Arnold, Frances	Pasadena	CA	US	
Shao, Zhixin	Penzberg	CA	DE	

Volkov, Alexander

South Pasadena

US

US-CL-CURRENT: 435/6; 435/91.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RNC](#) | [Drawn](#) | [De](#)**□ 3. Document ID: US 20040048351 A1**

L5: Entry 3 of 20

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040048351

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040048351 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: March 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Birkerod		DK	
Borchert, Torben Vedel	Jyllinge		DK	
Bisgaard-Frantzen, Henrik	Bagsvaerd		DK	

US-CL-CURRENT: 435/204; 510/226, 510/320[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RNC](#) | [Drawn](#) | [De](#)**□ 4. Document ID: US 20030199068 A1**

L5: Entry 4 of 20

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199068

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030199068 A1

TITLE: High throughput mutagenesis screening method

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bott, Richard R.	Burlingame	CA	US	
Kellis, James T. JR.	Portola Valley	CA	US	
Morrison, Thomas B.	Winchester	MA	US	

US-CL-CURRENT: 435/196; 435/252.3, 435/320.1, 435/69.1, 536/23.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RNC](#) | [Drawn](#) | [De](#)

□ 5. Document ID: US 20030199038 A1

L5: Entry 5 of 20

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199038

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030199038 A1

TITLE: Method for preparing polypeptide variants

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brody, Howard	Davis	CA	US	
Otani, Suzanne M.	Elk Grove	CA	US	
Cherry, Joel R.	Davis	CA	US	

US-CL-CURRENT: 435/69.1; 435/189, 435/193, 435/196, 435/232, 435/233, 435/254.3,
435/484[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RNC](#) | [Drawn](#)

□ 6. Document ID: US 20030171543 A1

L5: Entry 6 of 20

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030171543

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030171543 A1

TITLE: High throughput mutagenesis screening method

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bott, Richard R.	Burlingame	CA	US	
Kellis, James T. JR.	Portola Valley	CA	US	
Morrison, Thomas B.	Winchester	MA	US	

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/455, 435/69.1, 435/7.1[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RNC](#) | [Drawn](#)

□ 7. Document ID: US 20030171236 A1

L5: Entry 7 of 20

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030171236

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030171236 A1

TITLE: ALPHA-AMYLASE MUTANTS

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Birkerod		DK	
Borchert, Torben Vedel	Jyllinge		DK	
Bisgaard-Frantzen, Henrik	Bagsvaerd		DK	

US-CL-CURRENT: 510/305; 435/202, 510/226

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RQNC](#) | [Drawn Ds](#)

8. Document ID: US 20030170861 A1

L5: Entry 8 of 20

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170861
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170861 A1

TITLE: Cellobiohydrolase I gene and improved variants

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Adney, William S.	Golden	CO	US	
Decker, Stephen R.	Berthoud	CO	US	
McCarter, Suzanne	San Carlos	CA	US	
Baker, John O.	Golden	CO	US	
Nieves, Rafael	Lakewood	CO	US	
Himmel, Michael E.	Littleton	CO	US	
Vinzant, Todd B.	Golden	CO	US	

US-CL-CURRENT: 435/209; 435/320.1, 435/325, 435/69.1, 536/23.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RQNC](#) | [Drawn Ds](#)

9. Document ID: US 20030091691 A1

L5: Entry 9 of 20

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030091691
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030091691 A1

TITLE: Stepping process

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Olsen, Hans Sejr	Holte		DK	
Nielsen, Bjarne Ronfeldt	Virum		DK	

US-CL-CURRENT: 426/49

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn](#) | [D](#)

10. Document ID: US 20030051836 A1

L5: Entry 10 of 20

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030051836

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030051836 A1

TITLE: Enzymatic hydrolysis of a polymer comprising vinyl acetate monomer

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borch, Kim	Birkerod	TN	DK	
Lund, Henrik	Skodsborg		DK	
Sharyo, Masaki	Matsudo-shi		JP	
Sakaguchi, Hiromichi	Chiba city		JP	
Pedersen, Hanne Host	Lyngby		DK	
Fitzhenry, James William	Memphis		US	

US-CL-CURRENT: 162/72; 162/100, 162/189

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn](#) | [D](#)

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Search Results - Record(s) 11 through 20 of 20 returned.

11. Document ID: US 20020137661 A1

Using default format because multiple data bases are involved.

L5: Entry 11 of 20

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137661

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137661 A1

TITLE: METHOD FOR CREATING POLYNUCLEOTIDE AND POLYPEPTIDE SEQUENCES

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ARNOLD, FRANCES	PASADENA	CA	US	
SHAO, ZHIXIN	PENZBERG	DE	US	
VOLKO, ALEXANDER	SOUTH PASADENA	CA	US	

US-CL-CURRENT: 514/1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Draw](#)

12. Document ID: US 20020123445 A1

L5: Entry 12 of 20

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123445 A1

TITLE: Stability enhancing formulation components, compositions and laundry methods employing same

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dykstra, Robert Richard	Cleves	OH	US	
Gustwiller, Marc Eric	Cincinnati	OH	US	
Howard, Tonya Ann	South Lebanon	OH	US	

US-CL-CURRENT: 510/302; 510/309, 510/375, 510/499[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D.](#)**13. Document ID: US 20020123123 A1**

L5: Entry 13 of 20

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123123

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123123 A1

*This
application*TITLE: Cutinase variants

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Horsholm		DK	
Glad, Sanne O. Schroder	Ballerup		DK	
Fukuyama, Shiro	Chiba		JP	
Matsui, Tomoko	Chiba		JP	

US-CL-CURRENT: 435/200; 435/252.3, 435/254.2, 435/320.1, 435/69.1, 536/23.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D.](#)**14. Document ID: US 6815190 B1**

L5: Entry 14 of 20

File: USPT

Nov 9, 2004

US-PAT-NO: 6815190

DOCUMENT-IDENTIFIER: US 6815190 B1

TITLE: Cutinase variants[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D.](#)**15. Document ID: US 6642044 B2**

L5: Entry 15 of 20

File: USPT

Nov 4, 2003

US-PAT-NO: 6642044

DOCUMENT-IDENTIFIER: US 6642044 B2

TITLE: .alpha.-amylase mutants[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D.](#)

□ 16. Document ID: US 6537746 B2

L5: Entry 16 of 20

File: USPT

Mar 25, 2003

US-PAT-NO: 6537746

DOCUMENT-IDENTIFIER: US 6537746 B2

** See image for Certificate of Correction **TITLE: Method for creating polynucleotide and polypeptide sequences

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KOMC	Drawn D
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□ 17. Document ID: US 6436888 B1

L5: Entry 17 of 20

File: USPT

Aug 20, 2002

US-PAT-NO: 6436888

DOCUMENT-IDENTIFIER: US 6436888 B1

TITLE: .alpha.-amylase mutants

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KOMC	Drawn D
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□ 18. Document ID: US 6143708 A

L5: Entry 18 of 20

File: USPT

Nov 7, 2000

US-PAT-NO: 6143708

DOCUMENT-IDENTIFIER: US 6143708 A

TITLE: .alpha.-amylase mutants

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KOMC	Drawn D
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□ 19. Document ID: MX 2002011911 A1, WO 200192502 A1, AU 200160085 A, EP 1290150 A1, CN 1426463 A, JP 2003534797 W

L5: Entry 19 of 20

File: DWPI

May 1, 2003

DERWENT-ACC-NO: 2002-216714

DERWENT-WEEK: 200415

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TITLE: Variant of parent fungal cutinase for enzymatic hydrolysis of cyclic oligomers of poly(ethylene terephthalate), comprises a substitution of amino acid residues corresponding to positions of Humicola insolens cutinase

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KOMC	Drawn D
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20. Document ID: US 6815190 B1, WO 200034450 A1, AU 200015038 A, BR 9915832 A, EP 1137761 A1, KR 2001081059 A, CN 1329664 A, JP 2003520016 W, MX 2001005422 A1

L5: Entry 20 of 20

File: DWPI

Nov 9, 2004

DERWENT-ACC-NO: 2000-482424

DERWENT-WEEK: 200474

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TITLE: Thermostable variant of parent fungal cutinase useful for dyeing polyester yarn or fabric, comprises substitution of amino acid residues at predetermined positions from the N-terminal amino acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [RKC](#) | [Draw](#)

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Terms	Documents
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US006797010B2

(12) **United States Patent**
Uyama et al.

(10) Patent No.: **US 6,797,010 B2**
(45) Date of Patent: **Sep. 28, 2004**

(54) **REDEPOSITION OR BACKSTAIN
INHIBITION DURING STONEWASHING
PROCESS**

(75) Inventors: Naoto Uyama, Chiba-prefecture (JP);
Kosaku Daimon, Chiba-ken (JP)

(73) Assignee: Novozymes A/S, Bagsvaerd (DK)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 126 days.

(21) Appl. No.: **09/924,379**

(22) Filed: **Aug. 8, 2001**

(65) **Prior Publication Data**

US 2002/0066144 A1 Jun. 6, 2002

Related U.S. Application Data

(63) Continuation of application No. PCT/DK01/00384, filed on
Jun. 5, 2001.

(60) Provisional application No. 60/211,004, filed on Jun. 12,
2000, provisional application No. 60/244,351, filed on Oct.
30, 2000, provisional application No. 60/253,798, filed on
Nov. 29, 2000, and provisional application No. 60/265,473,
filed on Jan. 31, 2001.

(30) **Foreign Application Priority Data**

Jun. 2, 2000 (DK)	2000 00861
Oct. 23, 2000 (DK)	2000 01577
Nov. 24, 2000 (DK)	2000 01772
Jan. 19, 2001 (DK)	2001 00100

(51) **Int. Cl.⁷** **D06M 0/00**

(52) **U.S. Cl.** **8/115.51; 8/137; 510/320;
510/321; 510/392; 510/393**

(58) **Field of Search** **8/115.51, 137;
510/320, 321, 392, 393**

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,837,010 A	* 11/1998	Baeck et al.	8/137
5,912,157 A	6/1999	von der Osten	

FOREIGN PATENT DOCUMENTS

WO	WO 93/25655	12/1993
WO	WO 94/07983	4/1994
WO	WO 94/29426	12/1994
WO	WO 97/04160	2/1997
WO	WO 99/51808	10/1999

* cited by examiner

Primary Examiner—Charles Boyer

Assistant Examiner—Derrick G. Hamlin

(74) *Attorney, Agent, or Firm*—Elias J. Lambiris

(57) **ABSTRACT**

The present invention relates to the inhibition of backstaining
or redeposition during the stonewashing process by
applying a lipolytic enzyme, preferably cutinase, thereby
avoiding that the blue color redeposits on the fabric or
garment.

8 Claims, No Drawings

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NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
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L1 242 CUTINASE (5A) (VARIANT OR MUTA? OR SUBSTITUT?)

=> s 11 and (sequence or gene)
6 FILES SEARCHED...
L2 138 L1 AND (SEQUENCE OR GENE)

=> dup rem 12
PROCESSING COMPLETED FOR L2
L3 59 DUP REM L2 (79 DUPLICATES REMOVED)

=> d 1-10

L3 ANSWER 1 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:996321 HCAPLUS
DN 141:421730
TI ***Sequences*** of variant subtilisin enzymes (subtilases) having an improved wash performance on egg stains
IN Minning, Stefan; Knoetzel, Juergen Carsten Franz; Sorensen, Niels Henrik; Ness, Jon E.; Welch, Mark D.; Giver, Lorraine J.; Cherry, Joel; Vedel, Borchert Torben; Minshull, Jeremy S.
PA Novozymes A/S, Den.; Maxigen, Inc.
SO PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2004099401	A1	20041118	WO 2004-DK312	20040506	
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PRAI DK 2003-690

A 20030507

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
DUPLICATE 1

AN 2004-01674 BIOTECHDS

TI New ***cutinase*** ***variants*** of *Pseudomonas mendocina*
cutinase useful for facilitating the identification of trends and
enabling construction of new molecular libraries and graded
identification of mutation sites for further improvement;
bacterium enzyme production and site saturation mutagenesis for
molecular library construction

AU BOTT R R; KELLIS J T; MORRISON T B

PA GENENCOR INT INC

PI WO 2003076580 18 Sep 2003

AI WO 2003-US6908 5 Mar 2003

PRAI US 2002-403921 15 Aug 2002; US 2002-91912 5 Mar 2002

DT Patent

LA English

OS WPI: 2003-902771 [82]

L3 ANSWER 3 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
DUPLICATE 2

AN 2004-07741 BIOTECHDS

TI Avirulent *Mycobacterium marinum* and *Mycobacterium tuberculosis* bacteria,
useful as vaccines for eliciting an immune response in a patient, or for
treating and preventing mycobacterial infections;
for use in recombinant vaccine preparation against *mycobacterium*
infection, prevention and therapy

AU TRUCKSIS M

PA US DEPT VETERANS AFFAIRS; UNIV MARYLAND BALTIMORE

PI US 2003236393 25 Dec 2003

AI US 2003-394575 24 Mar 2003

PRAI US 2003-394575 24 Mar 2003; US 2002-366262 22 Mar 2002

DT Patent

LA English

OS WPI: 2004-070621 [07]

L3 ANSWER 4 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:892912 HCAPLUS

DN 139:359866

TI *Bacillus licheniformis* mutants with improved production of heterologous
proteins by reducing the amount of contaminant secreted native
polypeptide(s)

IN Andersen, Jens Tonne; Jorgensen, Steen Troels; Rasmussen, Michael
Dolbjer; Olsen, Peter Bjarke; Clausen, Ib Groth

PA Novozymes A/S, Den.

SO PCT Int. Appl., 422 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003093453	A2	20031113	WO 2003-DK198	20030325
	WO 2003093453	A3	20040513		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	EP 1497429	A2	20050119	EP 2003-709679	20030325
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			

PRAI DK 2002-534 A 20020410

L3 ANSWER 5 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:58203 HCAPLUS
 DN 138:133154
 TI Subtilase variants with improved stability, catalytic activity or wash performance for use in detergents
 IN Fano, Tina Sejersgard; Von der Osten, Claus; Krueger, Malene Kappen; Norregaard-Madsen, Mads
 PA Novozymes A/S, Den.
 SO PCT Int. Appl., 66 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003006602	A2	20030123	WO 2002-DK485	20020711
	WO 2003006602	A3	20031106		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1409659	A2	20040421	EP 2002-745188	20020711
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	BR 2002010837	A	20040713	BR 2002-10837	20020711
	JP 2004537994	T2	20041224	JP 2003-512361	20020711
	ZA 2003009666	A	20040803	ZA 2003-9666	20031212
	US 2004197894	A1	20041007	US 2003-481723	20031222
PRAI	DK 2001-1090	A	20010712		
	DK 2001-90	A	20010712		
	WO 2002-DK485	W	20020711		

L3 ANSWER 6 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:836519 HCAPLUS
 DN 139:339298
 TI Subtilase variants having an improved wash performance on egg stains
 IN Fano, Tina Sejersgard; Mikkelsen, Frank
 PA Den.
 SO U.S. Pat. Appl. Publ., 56 pp., Cont.-in-part of U.S. Ser. No. 574417, abandoned.
 CODEN: USXXCO

DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003199077	A1	20031023	US 2000-736116	20001213
	US 6727085	B2	20040427		
PRAI	DK 1999-1792	A	19991215		
	US 2000-487953	B2	20000119		
	DK 2000-708	A	20000501		
	US 2000-574417	B2	20000519		
	DK 2000-1527	A	20001013		
	US 2000-241207P	P	20001017		

L3 ANSWER 7 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:796297 HCAPLUS
 DN 139:319339
 TI Subtilisins with active site loop c mutations and detergent compositions with improved wash performance
 IN Hansen, Peter Kamp; Bauditz, Peter; Mikkelsen, Frank; Andersen, Kim Vilbour; Andersen, Carsten; Norregaard-Madsen, Mads
 PA Novozymes A/S, Den.

SO U.S. Pat. Appl. Publ., 63 pp., Cont.-in-part of U.S. Ser. No. 574,463,

abandoned.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 20

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003191038	A1	20031009	US 2002-243576	20020913
	US 6780629	B2	20040824		
	US 6605458	B1	20030812	US 1998-196281	19981119
	US 2003180933	A1	20030925	US 2003-403105	20030331
PRAI	DK 1997-1332	A	19971121		
	US 1998-196281	A2	19981119		
	DK 1999-704	A	19990520		
	DK 1999-705	A	19990520		
	DK 1999-707	A	19990520		
	DK 1999-708	A	19990520		
	DK 1999-709	A	19990520		
	DK 1999-710	A	19990520		
	DK 1999-711	A	19990520		
	DK 1999-712	A	19990520		
	US 2000-573298	A2	20000518		
	US 2000-573299	A2	20000518		
	US 2000-573652	B2	20000518		
	US 2000-573932	A2	20000518		
	US 2000-574033	A2	20000518		
	US 2000-574143	A2	20000518		
	US 2000-574463	B2	20000518		
	US 2000-574468	A2	20000518		

L3 ANSWER 8 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:717789 HCAPLUS

DN 139:225467

TI Methods for generating libraries using high throughput site-saturation mutagenesis

IN Bott, Richard R.; Kellis, James T.; Morrison, Thomas B.

PA USA

SO U.S. Pat. Appl. Publ., 21 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003171543	A1	20030911	US 2002-92227	20020305
	WO 2003076580	A2	20030918	WO 2003-US6908	20030305
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2002-362372P	P	20020305		
	US 2002-91912	A	20020305		
	US 2002-92227	A	20020305		
	US 2002-403921P	P	20020815		

L3 ANSWER 9 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:717737 HCAPLUS

DN 139:242282

TI Subtilisin insertion mutants for use in detergent compositions with improved wash performance

IN Hansen, Peter Kamp; Bauditz, Peter; Mikkelsen, Frank; Andersen, Kim Vilbour; Andersen, Carsten; Norregaard-Madsen, Mads

PA Novozymes A/S, Den.

SO U.S. Pat. Appl. Publ., 72 pp., Cont.-in-part of U.S. Ser. No. 573,301.

CODEN: USXXCO
DT Patent
LA English
FAN CNT 20

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003171235	A1	20030911	US 2002-242549	20020912
	US 6773907	B2	20040810		
	US 6605458	B1	20030812	US 1998-196281	19981119
	US 2003180933	A1	20030925	US 2003-403105	20030331
PRAI	DK 1997-1332	A	19971121		
	US 1998-196281	A2	19981119		
	DK 1998-1670	A	19981218		
	DK 1998-1671	A	19981218		
	DK 1998-1672	A	19981218		
	DK 1998-1673	A	19981218		
	DK 1998-1674	A	19981218		
	DK 1998-1675	A	19981218		
	DK 1998-1677	A	19981218		
	DK 1999-706	A	19981218		
	US 1999-229720	B1	19990113		
	DK 1998-1676	A	19990520		
	DK 1999-701	A	19990520		
	US 1999-466385	A2	19991220		
	US 1999-466943	A2	19991220		
	US 1999-468262	A2	19991220		
	US 1999-468266	A2	19991220		
	US 1999-468267	A2	19991220		
	US 1999-468486	A2	19991220		
	US 1999-468487	A2	19991220		
	US 1999-468488	A2	19991220		
	US 2000-573301	A2	20000518		

L3 ANSWER 10 OF 59 MEDLINE on STN DUPLICATE 3
AN 2003268939 MEDLINE
DN PubMed ID: 12795380
TI Molecular evidence that the extracellular cutinase *Pbcl* is required for pathogenicity of *Pyrenopeziza brassicae* on oilseed rape.
AU Li Donghui; Ashby Alison M.; Johnstone Keith
CS Department of Plant Sciences, University of Cambridge, Downing Street, Cambridge CB2 3EA, UK.
SO Molecular plant-microbe interactions : MPMI, (2003 Jun) 16 (6) 545-52.
Journal code: 9107902. ISSN: 0894-0282.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200309
ED Entered STN: 20030611
Last Updated on STN: 20030928
Entered Medline: 20030926

=> d 11-20

L3 ANSWER 11 OF 59 HCPLUS COPYRIGHT 2005 ACS on STN
AN 2003:485779 HCPLUS
DN 140:265145
TI Eubacteria containing RNA polymerase RpoB substitution mutants and their use in enhancing product yield
CS Novozymes A/S, Den.
SO IP.com Journal (2003), 3(4), 16 (No. IPCOM000011583D), 6 Mar 2003
CODEN: IJPOBX; ISSN: 1533-0001
PB IP.com, Inc.
DT Journal; Patent
LA English
PATENT NO. KIND DATE APPLICATION NO. DATE
----- ----- ----- -----
PI IP 11583D 20030306
PRAI IP 2003-11583D 20030306

L3 ANSWER 12 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:293829 HCAPLUS

DN 136:321289

TI Subtilase variants with decreased sensitivity to trypsin inhibitors present in egg stains

IN Norregaard-Madsen, Mads; Larsen, Line Bloch; Hansen, Peter Kamp

PA Novozymes A/S, Den.

SO PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002031133	A1	20020418	WO 2001-DK667	20011012
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2424434	AA	20020418	CA 2001-2424434	20011012
	AU 2002010379	A5	20020422	AU 2002-10379	20011012
	US 2002155575	A1	20021024	US 2001-976414	20011012
	EP 1326966	A1	20030716	EP 2001-978206	20011012
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004511228	T2	20040415	JP 2002-534502	20011012
	US 2004248273	A1	20041209	US 2004-884325	20040702
PRAI	DK 2000-1528	A	20001013		
	US 2000-241201P	P	20001017		
	US 2001-976414	A1	20011012		
	WO 2001-DK667	W	20011012		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 13 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:72246 HCAPLUS

DN 136:130769

TI Recombinant Bacillus pectate lyases with improved thermostability and their use in detergents

IN Schuelein, Martin; Glad, Sanne O. Schroder; Andersen, Carsten; Frandsen, Torben Peter

PA Novozymes A/S, Den.

SO PCT Int. Appl., 158 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002006442	A2	20020124	WO 2001-DK505	20010717
	WO 2002006442	A3	20020926		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2001081736	A5	20020130	AU 2001-81736	20010717
	EP 1305408	A2	20030502	EP 2001-960180	20010717
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003017575	A1	20030123	US 2001-910505	20010719
	US 6607902	B2	20030819		

US 2003175940	A1	20030918	US 2003-403192	20030331
US 6808915	B2	20041026		
PRAI DK 2000-1117	A	20000719		
DK 2001-705	A	20010504		
DK 2001-734	A	20010510		
US 2001-290724P	P	20010514		
WO 2001-DK505	W	20010717		
US 2001-910505	A3	20010719		

L3 ANSWER 14 OF 59 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

AN 2002:570980 BIOSIS

DN PREV200200570980

TI Identification of a cutinase ***gene*** in *Mycobacterium marinum* linked to virulence.

AU Ruley, K. M. [Reprint author]; Trucks, M. [Reprint author]

CS University of Maryland, Baltimore, MD, USA

SO Abstracts of the General Meeting of the American Society for Microbiology, (2002) Vol. 102, pp. 58. print.

Meeting Info.: 102nd General Meeting of the American Society for Microbiology. Salt Lake City, UT, USA. May 19-23, 2002. American Society for Microbiology.

ISSN: 1060-2011.

DT Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 7 Nov 2002

Last Updated on STN: 7 Nov 2002

L3 ANSWER 15 OF 59 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

AN 2002:978831 SCISEARCH

GA The Genuine Article (R) Number: 619QG

TI Studies on ferulic acid esterase activity in fungal lipases and cutinases

AU Andersen A (Reprint); Svendsen A; Vind J; Lassen S F; Hjort C; Borch K; Patkar S A

CS Novozymes AS, Dept Prot Chem, DK-2880 Bagsvaerd, Denmark

CYA Denmark

SO COLLOIDS AND SURFACES B-BIOINTERFACES, (SEP 2002) Vol. 26, No. 1-2, pp. 47-55.

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS.

ISSN: 0927-7765.

DT Article; Journal

LA English

REC Reference Count: 38

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 16 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4

AN 2001:886490 HCAPLUS

DN 136:33925

TI ***Cutinase*** ***variants*** with improved thermostability and their use in textile treatments

IN Svendsen, Allan; Glad, Sanne O. S.; Fukuyama, Shiro; Matsui, Tomoko

PA Novozymes A/s, Den.

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001092502	A1	20011206	WO 2001-DK350	20010522
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				

CA 2408406	AA	20011206	CA 2001-2408406	20010522
EP 1290150	A1	20030312	EP 2001-933646	20010522
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003534797	T2	20031125	JP 2002-500694	20010522
PRAI DK 2000-861	A	20000602		
DK 2000-1577	A	20001023		
DK 2000-1772	A	20001124		
DK 2001-100	A	20010119		
WO 2001-DK350	W	20010522		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 17 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:798405 HCAPLUS
DN 135:340845
TI Enzyme variants with decreased immunogenicity having one or more D-amino acid substitutions and their use in cleaning and personal care compositions
IN Weisgerber, David John
PA Procter + Gamble Company, USA
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001081556	A2	20011101	WO 2001-US13061	20010423
	WO 2001081556	A3	20020718		
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	US 2003170846	A1	20030911	US 2001-824607	20010402
	EP 1276871	A2	20030122	EP 2001-928770	20010423
		R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
	JP 2003530881	T2	20031021	JP 2001-578627	20010423
PRAI	US 2000-199415P	P	20000424		
	WO 2001-US13061	W	20010423		

L3 ANSWER 18 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:453240 HCAPLUS
DN 135:62103
TI Subtilase variants having an improved wash performance on egg stains
IN Fano, Tina Sejersgaard; Mikkelsen, Frank F.
PA Novozymes A/S, Den.
SO PCT Int. Appl., 137 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001044452	A1	20010621	WO 2000-DK660	20001201
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,		

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2394971 AA 20010621 CA 2000-2394971 20001201
 EP 1244779 A1 20021002 EP 2000-979461 20001201
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2003516751 T2 20030520 JP 2001-545529 20001201
 PRAI DK 1999-1792 A 19991215
 DK 2000-708 A 20000501
 DK 2000-1527 A 20001013
 WO 2000-DK660 W 20001201

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 19 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
 DUPLICATE 5

AN 2000-12956 BIOTECHDS

TI Thermostable ***variant*** of parent fungal ***cutinase*** useful
 for dyeing polyester yarn or fabric, comprises substitution of amino acid
 residues at predetermined positions from the N-terminal amino acid;
 method is useful improving the functional finish of a polymer of
 ethyleneglycol and terephthalic acid

AU Abo M; Fukuyama S; Svendsen A; Matsui T

PA Novo-Nordisk

LO Bagsvaerd, Denmark.

PI WO 2000034450 15 Jun 2000

AI WO 1999-DK678 3 Dec 1999

PRAI US 1999-124671 16 Mar 1999; DK 1998-1604 4 Dec 1998

DT Patent

LA English

OS WPI: 2000-482424 [42]

L3 ANSWER 20 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:457232 HCAPLUS

DN 133:85094

TI Protein production in Aspergillus mutant cells that produce decreased
 levels of toxin

IN Christensen, Bjorn Eggert; Mollgaard, Henrik; Kaasgaard, Svend; Lehmbbeck,
 Jan

PA Novo Nordisk A/S, Den.

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000039322	A1	20000706	WO 1999-DK726	19991222
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1141371	A1	20011010	EP 1999-960956	19991222
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002533133	T2	20021008	JP 2000-591212	19991222
	US 6383781	B1	20020507	US 1999-472364	19991223
	US 2002197682	A1	20021226	US 2002-99704	20020315
	US 6828137	B2	20041207		
PRAI	DK 1998-1726	A	19981223		
	DK 1999-745	A	19990527		
	US 1999-117396P	P	19990127		
	US 1999-139593P	P	19990617		
	WO 1999-DK726	W	19991222		
	US 1999-472364	A3	19991223		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 21-30

L3 ANSWER 21 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:441898 HCAPLUS
DN 133:86106
TI Variants of I-S1 and I-S2 sub-groups of subtilisin having an additional amino acid residue in the active site loop region showing greatly improved wash performance
IN Andersen, Vilbour Kim; Mikkelsen, Frank; Hansen, Kamp Peter; Andersen, Carsten; Norregaard-Madsen, Mads
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 72 pp.
CODEN: PIXKD2
DT Patent
LA English
FAN.CNT 20

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000037599	A1	20000629	WO 1999-DK714	19991220
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2355580	AA	20000629	CA 1999-2355580	19991220
	BR 9916351	A	20010918	BR 1999-16351	19991220
	EP 1141205	A1	20011010	EP 1999-960944	19991220
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002533066	T2	20021008	JP 2000-589656	19991220
	AU 771078	B2	20040311	AU 2000-17728	19991220
PRAI	DK 1998-1674	A	19981218		
	WO 1999-DK714	W	19991220		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 22 OF 59 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN DUPLICATE 6
AN 2000349356 EMBASE
TI Substitutions of surface amino acid residues of cutinase probed by aqueous two-phase partitioning.
AU Berggren K.; Egmond M.R.; Tjerneld F.
CS F. Tjerneld, Department of Biochemistry, Lund University, P.O. Box 124, S-221 00 Lund, Sweden. folke.tjerneld@biokem.lu.se
SO Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology, (29 Sep 2000) Vol. 1481, No. 2, pp. 317-327.
Refs: 31
ISSN: 0167-4838 CODEN: BBAEDZ
PUI S 0167-4838(00)00175-8
CY Netherlands
DT Journal; Article
FS 029 Clinical Biochemistry
LA English
SL English
ED Entered STN: 20001113
Last Updated on STN: 20001113

L3 ANSWER 23 OF 59 MEDLINE on STN DUPLICATE 7
AN 2000273759 MEDLINE
DN PubMed ID: 10812184
TI Genetic engineering of the *Fusarium solani pisi* lipase cutinase for enhanced partitioning in PEG-phosphate aqueous two-phase systems.
AU Bandmann N; Collet E; Leijen J; Uhlen M; Veide A; Nygren P A
CS Department of Biotechnology, Royal Institute of Technology (KTH), Teknikringen 30, SE-100 44, Stockholm, Sweden.

SO Journal of biotechnology, (2000 Apr 28) 79 (2) 161-72.
Journal code: 8411927. ISSN: 0168-1656.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200007
ED Entered STN: 20000720
Last Updated on STN: 20000720
Entered Medline: 20000712

L3 ANSWER 24 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:189188 HCAPLUS
DN 130:219878
TI Protease variants and compositions for use in detergents
IN Hansen, Peter Kamp; Bauditz, Peter; Mikkelsen, Frank; Andersen, Kim
Vilbour
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9911770	A1	19990311	WO 1998-DK361	19980819
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2301785	AA	19990311	CA 1998-2301785	19980819
	AU 9890618	A1	19990322	AU 1998-90618	19980819
	EP 1007646	A1	20000614	EP 1998-942501	19980819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI BR 9811396	A	20000822	BR 1998-11396	19980819
	JP 2001514847	T2	20010918	JP 2000-508781	19980819
	MX 200001890	A	20001109	MX 2000-1890	20000223
PRAI	DK 1997-988	A	19970829		
	WO 1998-DK361	W	19980819		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 25 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:189187 HCAPLUS
DN 130:206698
TI Protease variants and compositions for use in detergents
IN Hansen, Peter Kamp; Bauditz, Peter; Mikkelsen, Frank; Andersen, Kim
Vilbour

PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9911769	A1	19990311	WO 1998-DK360	19980819
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2301767	AA	19990311	CA 1998-2301767	19980819
	AU 9890617	A1	19990322	AU 1998-90617	19980819

EP 1012251	A1	20000628	EP 1998-942500	19980819
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
BR 9811412	A	20000822	BR 1998-11412	19980819
JP 2001514846	T2	20010918	JP 2000-508780	19980819
MX 200001889	A	20001109	MX 2000-1889	20000223
US 6558938	B1	20030506	US 2000-515150	20000229
PRAI DK 1997-987	A	19970829		
WO 1998-DK360	W	19980819		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 26 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:189186 HCAPLUS
DN 130:206697
TI Protease variants and compositions for use in detergents
IN Hansen, Peter Kamp; Bauditz, Peter; Mitkelsen, Frank; Andersen, Kim
Vilbour
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 67 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9911768	A1	19990311	WO 1998-DK359	19980819
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2301851	AA	19990311	CA 1998-2301851	19980819
	AU 9887981	A1	19990322	AU 1998-87981	19980819
	EP 1009815	A1	20000621	EP 1998-939486	19980819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	JP 2002515221	T2	20020528	JP 2000-508779	19980819
	MX 200001888	A	20001110	MX 2000-1888	20000223
	US 6555355	B1	20030429	US 2000-512251	20000224
	US 2003176304	A1	20030918	US 2003-336324	20030103
PRAI	DK 1997-986	A	19970829		
	WO 1998-DK359	W	19980819		
	US 2000-512251	A1	20000224		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 27 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:48790 HCAPLUS
DN 130:106943
TI Variants of Humicola family 6 endo-1,4-.beta.-glucanases CelA and CelB and
their use in cleaning compositions
IN Lund, Henrik; Nielsen, Jack Bech; Schulein, Martin; Damgaard, Bo;
Andersen, Kim Vilbour
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 271 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9901544	A1	19990114	WO 1998-DK299	19980702
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,				

CM, GA, GN, ML, MR, NE, SN, TD, TG
 AU 9879088 A1 19990125 AU 1998-79088 19980702
 EP 1002061 A1 20000524 EP 1998-929249 19980702
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI
 PRAI DK 1997-813 A 19970704
 WO 1998-DK299 W 19980702

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 28 OF 59 HCPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:808055 HCPLUS
 DN 132:132883
 TI Random mutagenesis libraries: optimization and simplification by PCR
 AU Xu, Hao; Petersen, Evamaria I.; Petersen, Steffen B.; El-Gewely, M. Raafat
 CS University of Tromso, Tromso, 9037, Norway
 SO BioTechniques (1999), 27(6), 1102, 1104, 1106, 1108
 CODEN: BTNQDO; ISSN: 0736-6205
 PB Eaton Publishing Co.
 DT Journal
 LA English

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 29 OF 59 HCPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:324873 HCPLUS
 DN 129:2165
 TI Subtilase variants with modified autoproteolytic stability for use in detergents
 IN Von der Osten, Claus; Halkier, Torben; Andersen, Carsten; Bauditz, Peter; Hansen, Peter Kamp
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 100 pp.
 CODEN: PIXXD2
 DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9820116	A1	19980514	WO 1997-DK500	19971104
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2270180	AA	19980514	CA 1997-2270180	19971104
	AU 9747731	A1	19980529	AU 1997-47731	19971104
	EP 932667	A1	19990804	EP 1997-910275	19971104
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	CN 1235637	A	19991117	CN 1997-199372	19971104
	CN 1136310	B	20040128		
	BR 9712878	A	20000201	BR 1997-12878	19971104
	JP 2001503269	T2	20010313	JP 1998-520961	19971104
	US 6300116	B1	20011009	US 1997-963851	19971104
	KR 2000053071	A	20000825	KR 1999-703986	19990504
	US 2002102702	A1	20020801	US 2001-948080	20010906
PRAI	DK 1996-1235	A	19961104		
	DK 1996-1240	A	19961105		
	DK 1997-284	A	19970314		
	US 1997-963851	A3	19971104		
	WO 1997-DK500	W	19971104		

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 30 OF 59 HCPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:324872 HCPLUS
 DN 129:2164
 TI Subtilase variants at amino acid positions Tyr-167 and Arg-170 for improved wash performance in detergents

IN Hansen, Peter Kamp; Von der Osten, Claus; Bauditz, Peter
 PA Novo Nordisk A/S, Den.; Hansen, Peter Kamp; Von der Osten, Claus; Bauditz, Peter
 SO PCT Int. Appl., 81 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9820115	A1	19980514	WO 1997-DK493	19971031
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2270593	AA	19980514	CA 1997-2270593	19971031
	AU 9747726	A1	19980529	AU 1997-47726	19971031
	EP 948610	A1	19991013	EP 1997-910270	19971031
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	CN 1235638	A	19991117	CN 1997-199434	19971031
	BR 9712473	A	19991221	BR 1997-12473	19971031
	JP 2002510191	T2	20020402	JP 1998-520957	19971031
	MX 9904108	A	20000228	MX 1999-4108	19990503
	KR 2000053060	A	20000825	KR 1999-703970	19990504
PRAI	DK 1996-1236	A	19961104		
	DK 1997-784	A	19970702		
	US 1997-52482P	P	19970714		
	DK 1997-1198	A	19971020		
	WO 1997-DK493	W	19971031		

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 31-40

L3 ANSWER 31 OF 59 MEDLINE on STN DUPLICATE 8
 AN 1998353360 MEDLINE
 DN PubMed ID: 9687432
 TI Expression and secretion of defined ***cutinase*** ***variants***
 by Aspergillus awamori.
 AU van Gemenen I A; Beijersbergen A; van den Hondel C A; Verrips C T
 CS Department of Biotechnology, Unilever Research, 3133 AT Vlaardingen, The
 Netherlands.. ingeborg-van.gemenen@unilever.com
 SO Applied and environmental microbiology, (1998 Aug) 64 (8) 2794-9.
 Journal code: 7605801. ISSN: 0099-2240.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199809
 ED Entered STN: 19981006
 Last Updated on STN: 19981006
 Entered Medline: 19980924

L3 ANSWER 32 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
 AN 1999-06415 BIOTECHDS
 TI A second polycaprolactone-depolymerase from Fusarium, a lipase distinct
 from cutinase;
 enzyme production by a mutant fungus for biodegradable plastic
 degradation
 AU Murphy C A; Cameron J A; Huang S J; *Vinopal R T
 CS Univ.Connecticut
 LO Department of Molecular and Cell Biology, University of Connecticut, 75
 North Eagleville Road, U-44, Storrs, CT 06269-3044, USA.
 Email: vinopal@uconnvm.uconn.edu
 SO Appl.Microbiol.Biotechnol.; (1998) 50, 6, 692-96
 CODEN: EJABDD ISSN: 0175-7598

DT Journal
LA English

L3 ANSWER 33 OF 59 MEDLINE on STN DUPLICATE 9
AN 1998096810 MEDLINE
DN PubMed ID: 9435084
TI Impaired secretion of a hydrophobic cutinase by *Saccharomyces cerevisiae* correlates with an increased association with immunoglobulin heavy-chain binding protein (BiP).

AU Sagt C M; Muller W H; Boonstra J; Verkleij A J; Verrips C T
CS Department of Molecular Cell Biology, Utrecht University, The Netherlands.. cees@emsaserv.biol.ruu.nl
SO Applied and environmental microbiology, (1998 Jan) 64 (1) 316-24.
Journal code: 7605801. ISSN: 0099-2240.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199803
ED Entered STN: 19980319
Last Updated on STN: 19980319
Entered Medline: 19980310

L3 ANSWER 34 OF 59 MEDLINE on STN DUPLICATE 10
AN 1998177152 MEDLINE
DN PubMed ID: 9508797
TI A cutinase-encoding ***gene*** from *Phytophthora capsici* isolated by differential-display RT-PCR.
AU Munoz C I; Bailey A M
CS Departamento de Ingenieria Genetica de Plantas, CINVESTAV-IPN, Unidad Irapuato, Apartado Postal 629, Irapuato, 36500 Gto, Mexico,.
SO Current genetics, (1998 Mar) 33 (3) 225-30.
Journal code: 8004904. ISSN: 0172-8083.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-X89452
EM 199805
ED Entered STN: 19980529
Last Updated on STN: 19980529
Entered Medline: 19980519

L3 ANSWER 35 OF 59 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 11

AN 1998405880 EMBASE
TI Protein engineering the surface of enzymes.
AU Petersen S.B.; Jonson P.H.; Fojan P.; Petersen E.I.; Neves Petersen M.T.; Hansen S.; Ishak R.J.; Hough E.
CS S.B. Petersen, Biostructure/Protein Engin. Lab., Department of Biotechnology, University of Aalborg, Sohngaardsholmsvej 57, DK-9000 Aalborg, Denmark. Steffen.Peteresen@civil.auc.dk
SO Journal of Biotechnology, (1998) Vol. 66, No. 1, pp. 11-26.
Refs: 25

PUI ISSN: 0168-1656 CODEN: JBITD4
S 0168-1656(98)00153-9

CY Netherlands
DT Journal; Conference Article
FS 029 Clinical Biochemistry
037 Drug Literature Index
004 Microbiology
LA English
SL English
ED Entered STN: 19981217
Last Updated on STN: 19981217

L3 ANSWER 36 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN DUPLICATE 12

AN 1997-05736 BIOTECHDS
TI Preparing polypeptide variants with improved functional properties; lipase enzyme engineering or protein engineering method involving

gene shuffling

AU Okkels J S
PA Novo-Nordisk
LO Bagsvaerd, Denmark.
PI WO 9707206 27 Feb 1997
AI WO 1996-DK344 12 Aug 1996
PRAI DK 1995-1047 20 Sep 1995; DK 1995-907 11 Aug 1995
DT Patent
LA English
OS WPI: 1997-165290 [15]

L3 ANSWER 37 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:259788 HCAPLUS
DN 126:234419
TI Generation of variant polypeptides by in vivo recombination between linear DNAs

IN Okkels, Jens Sigurd
PA Novo Nordisk A/s, Den.; Okkels, Jens Sigurd
SO PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9707205	A1	19970227	WO 1996-DK343	19960812
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
	AU 9666553	A1	19970312	AU 1996-66553	19960812
	EP 843725	A1	19980527	EP 1996-926325	19960812
	EP 843725	B1	20020417		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	CN 1192782	A	19980909	CN 1996-196213	19960812
	CN 1128875	B	20031126		
	JP 11510700	T2	19990921	JP 1996-508841	19960812
	AT 216427	E	20020515	AT 1996-926325	19960812
	EP 1213350	A2	20020612	EP 2002-2150	19960812
	EP 1213350	A3	20021204		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	US 2003148441	A1	20030807	US 2002-188594	20020703
	US 2005048649	A1	20050303	US 2004-738669	20041102
PRAI	DK 1995-907	A	19950811		
	DK 1995-1047	A	19950920		
	EP 1996-926325	A3	19960812		
	WO 1996-DK343	W	19960812		
	US 1998-8363	B1	19980116		
	US 2002-188594	A1	20020703		

L3 ANSWER 38 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:240584 HCAPLUS
DN 126:222277
TI Recombinant lipases with C- and/or N-terminal extensions and their use in detergents

IN Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben; Joergensen, Steen Troels; et al.

PA Novo Nordisk A/s, Den.; Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben

SO PCT Int. Appl., 191 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9704079	A1	19970206	WO 1996-DK322	19960712
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
	AU 9664141	A1	19970218	AU 1996-64141	19960712
	EP 839186	A1	19980506	EP 1996-923878	19960712
	EP 839186	B1	20041110		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	CN 1193346	A	19980916	CN 1996-196371	19960712
	JP 2001526523	T2	20011218	JP 1997-506185	19960712
	AT 282087	E	20041115	AT 1996-923878	19960712
	US 6495357	B1	20021217	US 1998-7288	19980114
	US 2003199069	A1	20031023	US 2002-232544	20020830
PRAI	DK 1995-832	A	19950714		
	DK 1995-1013	A	19950913		
	DK 1995-1096	A	19950929		
	DK 1995-1306	A	19951121		
	US 1996-11634P	P	19960214		
	DK 1996-372	A	19960401		
	US 1996-20461P	P	19960507		
	DK 1995-905	A	19950811		
	US 1996-11627P	P	19960214		
	DK 1996-374	A	19960401		
	US 1996-16754P	P	19960507		
	WO 1996-DK322	W	19960712		
	WO 1996-DK341	A2	19960812		
	US 1998-7288	A1	19980114		

L3 ANSWER 39 OF 59 HCPLUS COPYRIGHT 2005 ACS on STN

AN 1997:220628 HCPLUS

DN 126:208956

TI Recombinant lipases with C- and/or N-terminal extensions and their use in detergents

IN Fuglsang, Claus Crone; Okkels, Jens Sigurd; Pertersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben; Joergensen, Steen Troels; et al.

PA Novo Nordisk A/s, Den.; Fuglsang, Claus Crone; Okkels, Jens Sigurd; Pertersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben

SO PCT Int. Appl., 197 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN. CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9704078	A1	19970206	WO 1996-DK321	19960712
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
	AU 9664140	A1	19970218	AU 1996-64140	19960712
	CN 1193346	A	19980916	CN 1996-196371	19960712
PRAI	DK 1995-832	A	19950714		
	DK 1995-1013	A	19950913		
	DK 1995-1096	A	19950929		
	DK 1995-1306	A	19951121		
	US 1996-11634P	P	19960214		
	DK 1996-372	A	19960401		
	US 1996-20461P	P	19960507		
	WO 1996-DK321	W	19960712		

L3 ANSWER 40 OF 59 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

AN 1998-008848 [01] WPIDS

DNC C1998-003174

TI Detergent composition for cleaning hard surfaces and laundry, etc. -

comprises specific lipolytic enzyme and second lipolytic enzyme giving improved whiteness maintenance to fabrics.

DC D16 D25
IN BAECK, A C; KASTURI, C
PA (PROC) PROCTER & GAMBLE CO
CYC 70
PI WO 9743376 A1 19971120 (199801)* EN 74 C11D003-386
RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD
SE SZ UG
W: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS
JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT
RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN
AU 9658617 A 19971205 (199814) C11D003-386
BR 9612611 A 19990720 (199940) C11D003-386
CN 1224454 A 19990728 (199948) C11D003-386
JP 11511778 W 19991012 (199954) 70 C11D003-386
MX 9809589 A1 19990301 (200051) C11D003-386
ADT WO 9743376 A1 WO 1996-US7087 19960515; AU 9658617 A AU 1996-58617
19960515, WO 1996-US7087 19960515; BR 9612611 A BR 1996-12611 19960515, WO
1996-US7087 19960515; CN 1224454 A CN 1996-180379 19960515, WO 1996-US7087
19960515; JP 11511778 W WO 1996-US7087 19960515, JP 1997-540823 19960515;
MX 9809589 A1 MX 1998-9589 19981116
FDT AU 9658617 A Based on WO 9743376; BR 9612611 A Based on WO 9743376; JP
11511778 W Based on WO 9743376
PRAI WO 1996-US7087 19960515
IC ICM C11D003-386
ICS C11D007-42

=> d 39, 40 ab

L3 ANSWER 39 OF 59 HCPLUS COPYRIGHT 2005 ACS on STN

AB The invention relates to a modified enzyme with lipolytic activity recovered from a filamentous fungi or a bacteria having one or more peptide addns. at the N-terminal and/or the C-terminal ends in comparison to the parent enzyme. The peptide addns. significantly improve the washing performance of the lipase. Further, the invention relates to a DNA ***sequence*** encoding said modified enzyme, a vector comprising said DNA ***sequence***, a host cell harboring said DNA ***sequence*** or said vector, and a process for producing said modified enzyme with lipolytic activity. The lipase variants are useful in detergent compns. Numerous lipase variants contg. substitution mutations and C- and/or N-terminal addns. were prep'd. with recombinant *Aspergillus oryzae* or with *Escherichia coli*. The addn. of SPIRR to the N-terminus of *Humicola lanuginosa* lipase increased the wash performance relative to the parent enzyme twofold.

L3 ANSWER 40 OF 59 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

AB WO 9743376 A UPAB: 19980107
Detergent composition (I) comprises (a) a specific lipolytic enzyme (E1) which provides improved whiteness maintenance compared with 'LIPOLASE' (RTM) enzyme at equal hydrolytic activity (same LU/litre wash solution), and (b) at least a second lipolytic enzyme (E2).

(E1) is preferably a variant of a native enzyme produced by *Humicola lanuginosa* or *Thermomyces lanuginosus*, or by cloning and expressing the ***gene*** responsible for said variant into a host organism. Variants of *H. lanuginosa* are strains DSM 4106 and D96L. (E2) is a lipase, cutinase, esterase and/or phospholipase, especially (i) a lipase showing positive immunological cross-reaction with the antibody of the lipase produced by *Pseudomonas fluorescens* IAM 1057, (ii) wild type lipase producible by *P. pseudoalcaligenes* and its M21X and M21L variants or (iii) native lipase derived from *H. lanuginosa* DSM 4106 or a ***cutinase*** or ***cutinase*** ***variant***.

USE - (I) is used for hard surface cleaning, hand or machine dishwashing and hand or machine laundry cleaning.

ADVANTAGE - (I) improves fabric whiteness and reduces spotting and filming and/or redeposition on hard surfaces.

Dwg.0/0

=> d 41-50

L3 ANSWER 41 OF 59 MEDLINE on STN DUPLICATE 13
AN 97155571 MEDLINE
DN PubMed ID: 9002270
TI Cutinase A of *Botrytis cinerea* is expressed, but not essential, during penetration of gerbera and tomato.
AU van Kan J A; van't Klooster J W; Wagemakers C A; Dees D C; van der Vlugt-Bergmans C J
CS Department of Phytopathology, Wageningen Agricultural University, The Netherlands.. jan.vankan@medew.fyto.wau.nl
SO Molecular plant-microbe interactions : MPMI, (1997 Jan) 10 (1) 30-8.
Journal code: 9107902. ISSN: 0894-0282.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-Z69263
EM 199702
ED Entered STN: 19970306
Last Updated on STN: 19990129
Entered Medline: 19970226

L3 ANSWER 42 OF 59 MEDLINE on STN DUPLICATE 14
AN 96156790 MEDLINE
DN PubMed ID: 8593048
TI Fusarium polycaprolactone depolymerase is cutinase.
AU Murphy C A; Cameron J A; Huang S J; Vinopal R T
CS Department of Molecular and Cell Biology, University of Connecticut, Storrs 06269-3044, USA.
SO Applied and environmental microbiology, (1996 Feb) 62 (2) 456-60.
Journal code: 7605801. ISSN: 0099-2240.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199604
ED Entered STN: 19960418
Last Updated on STN: 19960418
Entered Medline: 19960401

L3 ANSWER 43 OF 59 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 97:35499 SCISEARCH
GA The Genuine Article (R) Number: WA261
TI Dynamics of *Fusarium solani* cutinase investigated through structural comparison among different crystal forms of its variants
AU Longhi S; Nicolas A; Creveld L; Egmond M; Verrips C T; deVlieg J; Martinez C; Cambillau C (Reprint)
CS CNRS, UPR9039, LAB CRISTALLOG & CRISTALLISAT MACROMOL BIOL, IFR1, 31 CHEMIN JOSEPH AIGUIER, F-13402 MARSEILLE 20, FRANCE (Reprint); CNRS, UPR9039, LAB CRISTALLOG & CRISTALLISAT MACROMOL BIOL, IFR1, F-13402 MARSEILLE 20, FRANCE; UNILEVER RES LABS VLAARDINGEN, NL-3130 AC VLAARDINGEN, NETHERLANDS
CYA FRANCE; NETHERLANDS
SO PROTEINS-STRUCTURE FUNCTION AND GENETICS, (DEC 1996) Vol. 26, No. 4, pp. 442-458.
Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC 605 THIRD AVE, NEW YORK, NY 10158-0012.
ISSN: 0887-3585.
DT Article; Journal
FS LIFE
LA English
REC Reference Count: 62
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 44 OF 59 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:990655 HCAPLUS
DN 124:24865
TI A method of preparing a variant of a lipolytic enzyme
IN Svendsen, Allan; Clausen, Ib Groth; Okkels, Jens Sigurd; Thellersen, Marianne

PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9522615	A1	19950824	WO 1995-DK79	19950222
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UG				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2183431	AA	19950824	CA 1995-2183431	19950222
	AU 9518067	A1	19950904	AU 1995-18067	19950222
	EP 746618	A1	19961211	EP 1995-909666	19950222
	EP 746618	B1	20020821		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	CN 1147836	A	19970416	CN 1995-192164	19950222
	CN 1077598	B	20020109		
	JP 09509058	T2	19970916	JP 1995-521525	19950222
	JP 3553958	B2	20040811		
	BR 9506861	A	19970923	BR 1995-6861	19950222
	AT 222604	E	20020915	AT 1995-909666	19950222
	FI 9603266	A	19960821	FI 1996-3266	19960821
	US 5976855	A	19991102	US 1996-701339	19960822
PRAI	DK 1994-217	A	19940222		
	WO 1995-DK79	W	19950222		

L3 ANSWER 45 OF 59 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 15

AN 95:766763 SCISEARCH
GA The Genuine Article (R) Number: TC463
TI ROLE OF CUTINASE IN THE INVASION OF PLANTS
AU KOLLER W (Reprint); YAO C L; TRIAL F; PARKER D M
CS CORNELL UNIV, NEW YORK STATE AGR EXPT STN, DEPT PLANT PATHOL, GENEVA, NY,
14456 (Reprint)
CYA USA
SO CANADIAN JOURNAL OF BOTANY-REVUE CANADIENNE DE BOTANIQUE, (1995) Vol. 73,
Supp. 1, pp. S1109-S1118.
ISSN: 0008-4026.
DT Article; Journal
FS AGRI
LA ENGLISH
REC Reference Count: 76
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 46 OF 59 LIFESCI COPYRIGHT 2005 CSA on STN
AN 96:31199 LIFESCI
TI Role of cutinase in the invasion of plants
AU Koeller, W.; Yao, Chenglin; Trial, F.; Parker, D.M.
CS Dep. Plant Pathol., Cornell Univ., New York State Agric. Exp. Stn.,
Geneva, NY 14456, USA
SO CAN. J. BOT./REV. CAN. BOT., (1995) vol. 73, no. Supplement 1, pp.
S1109-S1118.
Meeting Info.: 5. International Mycological Congress. Vancouver, BC
(Canada). 14-21 Aug 1994.

DT Journal
TC Conference; General Review
FS K; A
LA English
SL English; French

L3 ANSWER 47 OF 59 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN

AN 95:319244 SCISEARCH
GA The Genuine Article (R) Number: QW450
TI DIVERSITY OF CUTINASES FROM PLANT-PATHOGENIC FUNGI - DIFFERENT CUTINASES

ARE EXPRESSED DURING SAPROPHYTIC AND PATHOGENIC STAGES OF
ALTERNARIA-BRASSICICOLA

AU YAO C L; KOLLER W (Reprint)

CS CORNELL UNIV, NEW YORK STATE AGR EXPT STN, DEPT PLANT PATHOL, GENEVA, NY,
14456 (Reprint); CORNELL UNIV, NEW YORK STATE AGR EXPT STN, DEPT PLANT
PATHOL, GENEVA, NY, 14456

CY A USA

SO MOLECULAR PLANT-MICROBE INTERACTIONS, (JAN/FEB 1995) Vol. 8, No. 1, pp.
122-130.

ISSN: 0894-0282.

DT Article; Journal

FS LIFE; AGRI

LA ENGLISH

REC Reference Count: 46

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 48 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1996-01811 BIOTECHDS
TI Secretion of wild-type and ***mutant*** ***cutinases*** by
Saccharomyces cerevisiae;
Fusarium solani pisi enzyme engineering for improved activity and
protein secretion (conference abstract)

AU Sagt C M J; Verrrips C T
CS Univ.Utrecht; Unilever
LO Utrecht University, 3584 CH Utrecht, The Netherlands.
SO Yeast; (1995) 11, Spec.Iss., S594
CODEN: YESTE3 ISSN: 0749-503X
17th International Conference on Yeast Genetics and Molecular Biology,
Lisbon, Portugal, 10-16 June, 1995.

DT Journal
LA English

L3 ANSWER 49 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
DUPLICATE 16
AN 1994-12510 BIOTECHDS
TI Eukaryotic ***cutinase*** ***variant*** with improved lipolytic
activity;
with modified amino acid structure to improve compatibility with
anionic surfactant

PA Unilever
PI WO 9414964 7 Jul 1994
AI WO 1993-EP3551 9 Dec 1993
PRAI EP 1992-204079 23 Dec 1992
DT Patent
LA English
OS WPI: 1994-234699 [28]

L3 ANSWER 50 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
DUPLICATE 17
AN 1994-11303 BIOTECHDS
TI Eukaryotic ***cutinase*** ***variant*** with increased lipolytic
activity;
enzyme engineering and expression of plasmid pUR7220 in Saccharomyces,
Aspergillus, Hansenula or Kluyveromyces sp. for increased
hydrophobicity for use in surfactant composition

PA Unilever
PI WO 9414963 7 Jul 1994
AI WO 1993-EP3550 9 Dec 1993
PRAI NL 1992-204025 18 Dec 1992
DT Patent
LA English
OS WPI: 1994-234698 [28]

=> d 51-59

L3 ANSWER 51 OF 59 MEDLINE on STN DUPLICATE 18
AN 94348283 MEDLINE
DN PubMed ID: 8069105
TI Cutinase ***gene*** disruption in Fusarium solani f sp pisi decreases
its virulence on pea.

AU Rogers L M; Flaishman M A; Kolattukudy P E
CS Ohio State Biotechnology Center, Ohio State University, Columbus
43210-1002.
SO Plant cell, (1994 Jul) 6 (7) 935-45.
Journal code: 9208688. ISSN: 1040-4651.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199409
ED Entered STN: 19941006
Last Updated on STN: 19941006
Entered Medline: 19940928

L3 ANSWER 52 OF 59 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 19
AN 95:52833 SCISEARCH
GA The Genuine Article (R) Number: QA593
TI CUTINASE OF NECTRIA-HAEMATOCOCCA (FUSARIUM-SOLANI F SP PISI) IS NOT
REQUIRED FOR FUNGAL VIRULENCE OR ORGAN SPECIFICITY ON PEA
AU STAHL D J; THEUERKAUF A; HEITEFUSS R; SCHAFER W (Reprint)
CS INST GENBIOL FORSCH BERLIN GMBH, IHNESTR 63, D-14195 BERLIN, GERMANY
(Reprint); INST GENBIOL FORSCH BERLIN GMBH, D-14195 BERLIN, GERMANY; UNIV
GOTTINGEN, INST PFLANZENPATHOL & PFLANZENSCHUTZ, D-37077 GOTTINGEN,
GERMANY
CYA GERMANY
SO MOLECULAR PLANT-MICROBE INTERACTIONS, (NOV/DEC 1994) Vol. 7, No. 6, pp.
713-725.
ISSN: 0894-0282.
DT Article; Journal
FS LIFE; AGRI
LA ENGLISH
REC Reference Count: 40
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 53 OF 59 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 94:353311 SCISEARCH
GA The Genuine Article (R) Number: NN881
TI VARIATION IN CUTINASE, ESTERASE, AND CHROMOSOME PATTERNS IN NOP MUTANTS OF
A TRANSFORMED PATHOGENIC STRAIN OF PHYTOPHTHORA-CAPSICI
AU MENA G L (Reprint); MUÑOZ C I; GUZMAN P A; BAILEY A M
CS CINVESTAV IPN, DEPT INGN GENET PLANTAS, APARTADO POSTAL 629, IRAPUATO
36500, GUANAJUATO, MEXICO (Reprint)
CYA MEXICO
SO PHYTOPATHOLOGY, (MAY 1994) Vol. 84, No. 5, pp. 502-508.
ISSN: 0031-949X.
DT Article; Journal
FS AGRI
LA ENGLISH
REC Reference Count: 39
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 54 OF 59 MEDLINE on STN DUPLICATE 20
AN 93005716 MEDLINE
DN PubMed ID: 1392588
TI Cutinase is not required for fungal pathogenicity on pea.
AU Stahl D J; Schafer W
CS Institut für Genbiologische Forschung Berlin GmbH, Germany.
SO Plant cell, (1992 Jun) 4 (6) 621-9.
Journal code: 9208688. ISSN: 1040-4651.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199211
ED Entered STN: 19930122
Last Updated on STN: 19930122
Entered Medline: 19921113

L3 ANSWER 55 OF 59 MEDLINE on STN DUPLICATE 21

AN 92212280 MEDLINE
DN PubMed ID: 1557024
TI Disruption of a Magnaporthe grisea cutinase ***gene*** .
AU Sweigard J A; Chumley F G; Valent B
CS Central Research and Development, E.I. du Pont de Nemours and Co.,
Wilmington, DE 19880-0402.
SO Molecular & general genetics : MGG, (1992 Mar) 232 (2) 183-90.
Journal code: 0125036. ISSN: 0026-8925.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199205
ED Entered STN: 19920515
Last Updated on STN: 19990129
Entered Medline: 19920506

L3 ANSWER 56 OF 59 MEDLINE on STN DUPLICATE 22
AN 91376113 MEDLINE
DN PubMed ID: 1896470
TI Identification of a fungal cutinase promoter that is inducible by a plant
signal via a phosphorylated trans-acting factor.
AU Bajar A; Podila G K; Kolattukudy P E
CS Ohio State Biotechnology Center, Ohio State University, Columbus 43210.
SO Proceedings of the National Academy of Sciences of the United States of
America, (1991 Sep 15) 88 (18) 8208-12.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199110
ED Entered STN: 19911108
Last Updated on STN: 19911108
Entered Medline: 19911021

L3 ANSWER 57 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1990-04531 BIOTECHDS
TI Rice blast as a model for plant pathology;
Magnaporthe grisea ***cutinase*** -deficient ***mutant***
construction, ***gene*** cloning and genetic engineering
(conference paper)
AU Valent B
CS Du-Pont
LO E.I. du Pont de Nemours and Company, Inc., Central Research and
Development Department, Experimental Station, E402, Wilmington, DE
19880-0402, USA.
SO Phytopathology; (1990) 80, 1, 33-36
CODEN: PHYTAJ
DT Journal
LA English

L3 ANSWER 58 OF 59 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1989-02922 BIOTECHDS
TI Cutinase for use in detergent composition produced by culturing
Pseudomonas putida;
Fusarium solani, Helminthosporum sativum, Ulocladium consortiale,
Streptomyces scabies, Colletotrichum capsici, Phytophthora cactorum,
Botrytis cinerea, etc.
PA Genencor
PI WO 8809367 1 Dec 1988
AI WO 1988-US1844 31 May 1988
PRAI US 1987-56500 29 May 1987
DT Patent
LA English
OS WPI: 1988-353946 [49]

L3 ANSWER 59 OF 59 MEDLINE on STN DUPLICATE 23
AN 87056987 MEDLINE
DN PubMed ID: 3782031
TI Isolation of a Fusarium solani ***mutant*** reduced in

cutinase activity and virulence.
AU Dantzig A H; Zuckerman S H; Andonov-Roland M M
SO Journal of bacteriology, (1986 Nov) 168 (2) 911-6.
Journal code: 2985120R. ISSN: 0021-9193.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198612
ED Entered STN: 19900302
Last Updated on STN: 19970203
Entered Medline: 19861224

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NTIS, ESBIOSBASE, BIOTECHNO, WPIDS' ENTERED AT 19:03:12 ON 08 APR 2005

L1 242 S CUTINASE (5A) (VARIANT OR MUTA? OR SUBSTITUT?)
L2 138 S L1 AND (SEQUENCE OR GENE)
L3 59 DUP REM L2 (79 DUPLICATES REMOVED)

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